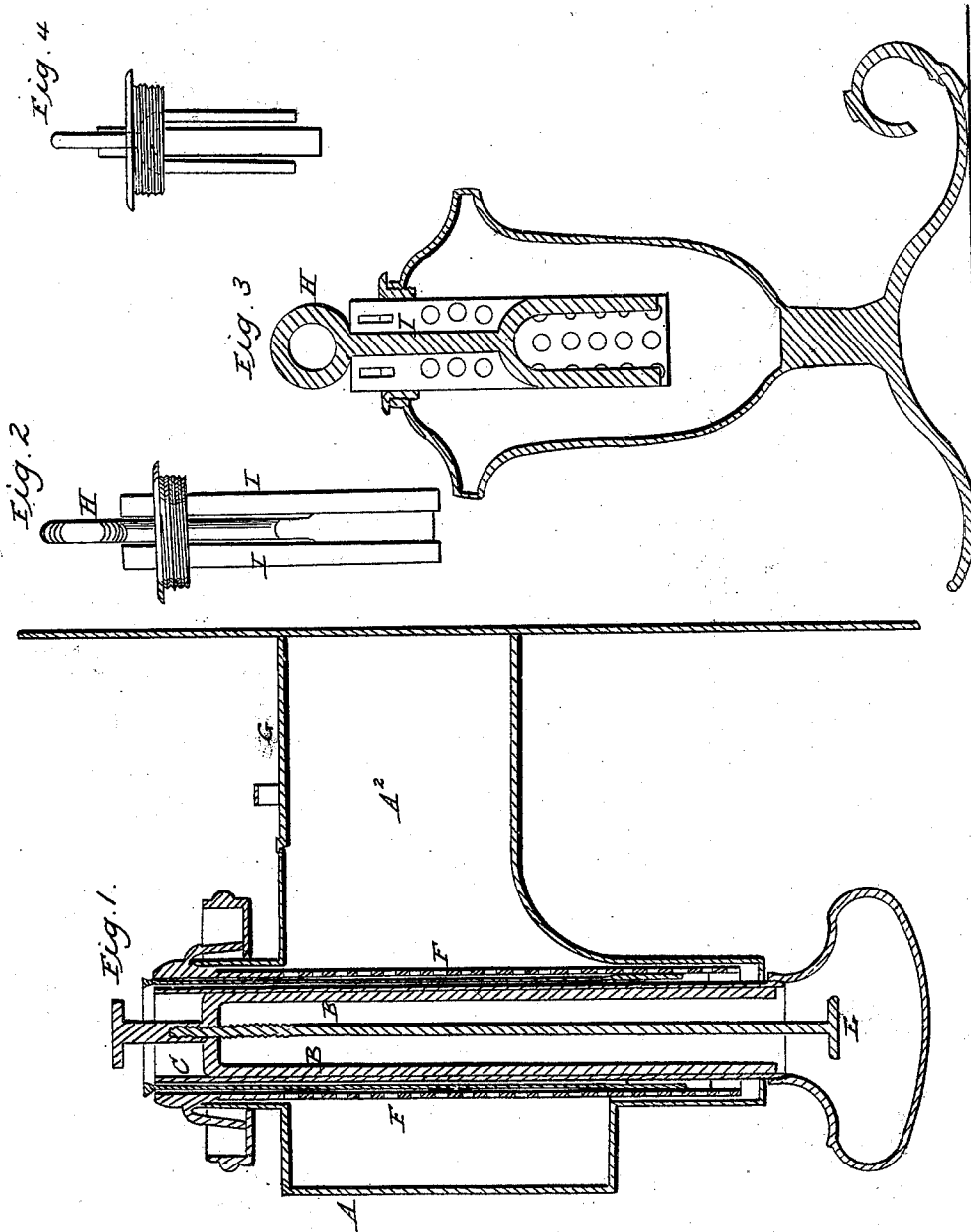


A. H. BAIRD.

Lamp.

No. 2,644.

Patented May 26, 1842.



UNITED STATES PATENT OFFICE.

ARCHIBALD H. BAIRD, OF NEW YORK, N. Y.

LAMP FOR BURNING LARD.

Specification of Letters Patent No. 2,644, dated May 26, 1842.

To all whom it may concern:

Be it known that I, ARCHIBALD H. BAIRD, of the city, county, and State of New York, have invented certain new and useful Improvements in Lamps for Burning Lard and Common Oils, &c., which are described as follows, reference being had to the annexed drawings of the same, making part of this specification.

The nature of my invention and improvement is in certain new and useful combinations of metallic yoke shaped conductors with the ordinary burners for conducting the heat to the parts of the lamp in contact with the lard, or other substances; or the vessels in which they are placed.

Figure 1 is a vertical section of an Argand lamp with which the improved yoke conductor is combined. Fig. 2 edge view of conductor and wick holders combined. Fig. 3 is an elevation of a ring and yoke conductor combined with the perforated wick holders of a kitchen lamp. Fig. 4 is an elevation of a yoke conductor of a chamber lamp.

To enable persons skilled in the art to make and use my improvements I will proceed to describe their construction and operation.

The main body of the Argand burner A is made in the usual manner.

The conductor B B is made in the form of a yoke, or double pronged, or branched stem and is placed inside the inner cylinder C—the vertical parts of the yoke conductor being nearly the length of said cylinder and the horizontal part equal to its diameter. The female screw is in said horizontal part through which the screw E passes for raising and lowering the button D. The flame strikes the button and heats it. The heat is conducted by its screw E and imparted to the yoke,—and the yoke conducts the heat

to the inner cylinder. The lard or other concrete substance being in contact with the wick which is put around said cylinder is thereby melted and converted into an oil or liquid which ascends to the flame—the wick being previously saturated in melted lard or oil.

The outer or revolving cylinder F is made of copper or other good conductor of heat perforated with numerous holes to permit the lard to pass through said holes and reach the wick put around the inner cylinder. This cylinder also assists in melting the lard.

The box or receiver A² for the lard is provided with a door or lid G through which the lard is admitted.

The heat conductor or lard melter H of the kitchen lamp consists of a vertical stem having a yoke at one end and a ring at the other the stem and yoke being placed between the wick holders and in contact therewith—the ring being above the upper ends of the wick tubes the flame acts upon it and heats it—the heat of which is conducted to the wick holders I which are made of copper and perforated and these being heated melts the lard or other substance in contact therewith. The chamber lamp is constructed on the same principle—the conductor being yoke shaped and in contact with the flame and lard.

What I claim as my invention and which I desire to secure by Letters Patent is—

Making the button D a heater by means of the copper yoke B in combination with the inner tube C and perforated outer tube F in Argand lamps for burning lard as described.

ARCHIBALD H. BAIRD.

Witnesses:

WM. P. ELLIOTT,
E. MAHER.